1	<u>CLAIMS</u>					
2	What is claimed is:					
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1	1. A method of providing a media session channel for communication of real time					
2	streaming media data from a remote client to a client served by an address translation					
3	firewall, the method comprising:					
4	receiving a ping datagram originated by the client that identifies the client;					
5	extracting a source network address and a source port number from the ping					
6	datagram;					
Company 88 mg Angel	receiving a session signaling message from a remote device, the session					
8	signaling message identifying the client and including a caller network address and a					
119	caller port number established for receipt of media session datagrams; and					
10	sending a client session signaling message to the client utilizing the source					
11	network address and source port number in response to receipt of the session signaling					
	message from the remote device.					
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1	2. The method of claim 1:					
2	further comprising:					
3	extracting a remote device source network address and a remote device					
4	source port number from the session signaling message;					
5	determining whether the caller network address matches a source network					
6	address;					
7	determining a designated network address and designated port number to					
8	which the client is to send media session datagrams, the designated network addres					
9	and the designated port number being:					
10	the caller network address and the caller port number if the caller network					
11	address matches the remote device source network address; and					
12	a relay server network address and a relay server port number if the caller					
13	network address does not match the remote device source network address; and					
14	wherein:					

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15	the client session signaling message includes the designated network					
16	address and designated port number.					
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1	3. The method of claim 2, further comprising:					
2	receiving a response message originated by the client that includes a client					
3	network address and a client port number for receipt of media session datagrams;					
4	determining a caller designated network address and a caller designated por					
5	number to which the caller is to send media session datagrams, the caller designated					
6	network address and the caller designated port number being:					
5 4 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	the client designated network address and the client designated port number					
-8	if the caller network address matches the remote device source network address; and					
9	a relay server network address and a relay server port number if the caller					
10	network address does not match the remote device source network address; and					
11	sending a remote device response message to the remote device that includes					
12	the caller designated network address and the caller designated port number.					
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II	4. A method of sending a call signaling message to a client independent of whether					
2	the client is served an address translation firewall, the method comprising:					
3	receiving a registration message from the client, the registration message					
4	identifying a network address of the client;					
5	extracting a source network address and a source port number from the					
6	registration message;					
7	comparing the a designated network address to the source network address;					
8	receiving a directory inquiry message from a remote device identifying the client;					
9	providing a directory inquiry response message to the remote device, the					
10	directory inquiry response message including a signaling address, the signaling address					
11	being:					
12	the network address if the network address and the source network address					
13	are the same network address; and					
14	a directory server network address if the network address and the source					

15	network address are not the same.				
	network address are not the same.				
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1	5. The method of claim 4, further comprising:				
2	receiving a session signaling message from a remote device and for the client;				
3	and				
4	sending a client session signaling message to the client utilizing the source				
5	network address and the source port number.				
6					
1 1 2 mg 3 mg 4 drug 15	6. The method of claim 5, wherein:				
2	the session signaling message includes a caller network address and a caller				
3	port number established for receipt of media session datagrams; and				
4	the method further includes:				
	extracting a remote device source network address and a remote device				
6	source port number from the session signaling message;				
147	determining whether the caller network address matches the remote device				
118	source network address;				
17 . 8	determining a designated network address and designated port number to				
10	which the client is to send media session datagrams, the designated network address				
11	and the designated port number being:				
12	the caller network address and the caller port number if the caller network				
13	address matches the remote device source network address; and				
14	a relay server network address and a relay server port number if the caller				
15	network address does not match the remote device source network address; and				
16	wherein the client session signaling message includes the designated network				
17	address and designated port number.				
18					
1	7. The method of claim 6, further comprising:				
2	receiving a response message originated by the client that includes a client				
3	network address and a client port number for receipt of media session datagrams;				
4	determining a caller designated network address and a caller designated port				

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number to which the caller is to send media session datagrams, the caller designated network address and the caller designated port number being:

the client network address and the client port number if the caller network address matches the remote device source network address; and

a relay server network address and a relay server port number if the caller network address does not match the remote device source network address; and

sending a remote device response message to the remote device that includes the caller designated network address and the caller designated port number.

- 8. The method of claim 4, further comprising: assigning a session identifier to the session in response to the directory inquiry; associating the session identifier to the client; and providing the session identifier to the remote device in the directory inquiry response message;
- 9. The method of claim 8, further comprising:

receiving a session signaling message from the remote device includes the session identifier;

identifying the client to which the session identifier is associated; and sending a client session signaling message to the client utilizing the source network address and source port number.

10. The method of claim 9, wherein:

the session signaling message includes a caller network address and a caller port number established for receipt of media session datagrams; and

the method further comprises:

determining whether the caller network address matches a remote device source network address;

determining a designated network address and designated port number to which the client is to send media session datagrams, the designated network address

9	being:
10	the caller network address and the caller port number if the caller network
11	address matches the remote device source network address; and
12	a relay server network address and a relay server port number if the caller
13	network address does not match the remote device source network address; and
14	wherein the client session signaling message includes the designated network
15	address and the designated port number.
16	
1	11. The method of claim 10, further comprising:
1 2 3 4 5	receiving a response message originated by the client that includes a client
3	network address and a client port number for receipt of media session datagrams;
4	determining a caller designated network address and a caller designated port
5	number to which the caller is to send media session datagrams, the caller designated
6	network address and caller designated port number being:
6 7 8 9	the client network address and the client port number if the caller network
8	address matches the remote device source network address; and
9	a relay server network address and a relay server port number if the caller
10	network address does not match the remote device source network address; and
11	sending a remote device response message to the remote device that includes
12	the caller network address and the caller port number.
13	
1	12. A director server for providing a media session channel for communication of real
2	time streaming media data from a remote client to a client served by an address
3	translation firewall, the directory server comprising:
4	means for receiving a ping datagram originated by the client that identifies the
5	client;
6	means for extracting a source network address and a source port number from
7	the ping datagram;
8	means for receiving a session signaling message from a remote device, the
9	session signaling message identifying the client and including a caller network address

10 and a caller port number established for receipt of media session datagrams; and 11 means for sending a client session signaling message to the client utilizing the source network address and source port number in response to receipt of the session 12 13 signaling message from the remote device. 14 1 13. The directory server of claim 12: 2 further comprising: 3 means for extracting a remote device source network address and a remote -4 device source port number from the session signaling message; means for determining whether the caller network address matches a source network address; means for determining a designated network address and designated port number to which the client is to send media session datagrams, the designated network 9 10 11 12 13 address and the designated port number being: the caller network address and the caller port number if the caller network address matches the remote device source network address; and a relay server network address and a relay server port number if the caller network address does not match the remote device source network address; and 14 wherein: 15 the client session signaling message includes the designated network address and designated port number. 16 17 1 14. The directory server of claim 13, further comprising: 2 means for receiving a response message originated by the client that includes a 3 client network address and a client port number for receipt of media session datagrams; means for determining a caller designated network address and a caller 4 designated port number to which the caller is to send media session datagrams, the 5 caller designated network address and the caller designated port number being: 6 7 the client designated network address and the client designated port number if the caller network address matches the remote device source network address; and 8

a relay server network address and a relay server port number if the caller			
network address does not match the remote device source network address; and			
means for sending a remote device response message to the remote device that			
includes the caller designated network address and the caller designated port number.			
15. A directory server for sending a call signaling message to a client independent of			
whether the client is served an address translation firewall, the directory server			
comprising:			
means for receiving a registration message from the client, the registration			
message identifying a network address of the client;			
means for extracting a source network address and a source port number from			
the registration message;			
means for comparing the a designated network address to the source network			
address;			
means for receiving a directory inquiry message from a remote device identifying			
the client;			
means for providing a directory inquiry response message to the remote device,			
the directory inquiry response message including a signaling address, the signaling			
address being:			
the network address if the network address and the source network address			
are the same network address; and			
a directory server network address if the network address and the source			
network address are not the same.			
16. The directory server of claim 15, further comprising:			
means for receiving a session signaling message from a remote device and for			
the client; and			
means for sending a client session signaling message to the client utilizing the			
source network address and the source port number.			

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1	17. The directory server of claim 16, wherein:				
2	the session signaling message includes a caller network address and a caller				
3	port number established for receipt of media session datagrams; and				
4	the directory server further comprises:				
5	means for extracting a remote device source network address and a remote				
6	device source port number from the session signaling message;				
7	means for determining whether the caller network address matches the				
8	remote device source network address;				
9	means for determining a designated network address and designated port				
10	number to which the client is to send media session datagrams, the designated network				
11	address and the designated port number being:				
9 1 1 1 2 2	the caller network address and the caller port number if the caller network				
13	address matches the remote device source network address; and				
14	a relay server network address and a relay server port number if the caller				
14 15	network address does not match the remote device source network address; and				
16 17	wherein the client session signaling message includes the designated network				
17	address and designated port number.				
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1	18. The directory server of claim 17, further comprising:				
2	means for receiving a response message originated by the client that includes a				
3	client network address and a client port number for receipt of media session datagrams;				
4	means for determining a caller designated network address and a caller				
5	designated port number to which the caller is to send media session datagrams, the				
6	caller designated network address and the caller designated port number being:				
7	the client network address and the client port number if the caller network				
8	address matches the remote device source network address; and				
9	a relay server network address and a relay server port number if the caller				
10	network address does not match the remote device source network address; and				
11	means for sending a remote device response message to the remote device that				
12	includes the caller designated network address and the caller designated port number.				

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	10	The divertence on an of claim E. Guthan and S.				
1	19. The directory server of claim 5, further comprising:					
2	means for assigning a session identifier to the session in response to the					
3	directory inquiry;					
4	means for associating the session identifier to the client; and					
5	means for providing the session identifier to the remote device in the directory					
6	inquiry response message;					
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20.	The directory server of claim 19, further comprising:				
12		means for receiving a session signaling message from the remote device				
-3	includes the session identifier;					
		means for identifying the client to which the session identifier is associated; and				
15	means for sending a client session signaling message to the client utilizing the					
<u></u> 6	source network address and source port number.					
14						
111	21.	The directory server of claim 20, wherein:				
1		the session signaling message includes a caller network address and a caller				
3	port n	umber established for receipt of media session datagrams; and				
4		the directory server further comprises:				
5	means for determining whether the caller network address matches a remote					
6	device source network address;					
7		means for determining a designated network address and designated port				
8	numbe	er to which the client is to send media session datagrams, the designated network				
9	address being:					
10		the caller network address and the caller port number if the caller network				
11	address matches the remote device source network address; and					
12	a relay server network address and a relay server port number if the caller					
13	network address does not match the remote device source network address; and					
14	wherein the client session signaling message includes the designated network					
15	address and the designated port number.					

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22.	The directory	server of claim 21,	further	comprising:

means for receiving a response message originated by the client that includes a client network address and a client port number for receipt of media session datagrams;

means for determining a caller designated network address and a caller designated port number to which the caller is to send media session datagrams, the caller designated network address and caller designated port number being:

the client network address and the client port number if the caller network address matches the remote device source network address; and

a relay server network address and a relay server port number if the caller network address does not match the remote device source network address; and

means for sending a remote device response message to the remote device that includes the caller network address and the caller port number.